The Current Status and Wideband Upgrades of the KVN

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Recently KVN equipped with broadband samplers OCTAD that supports aggregated data rates up to 32Gbps. It consist of four A/D converters and digital down-converters that support various bandwidth modes. Using the newly introduced broadband samplers together with existing data acquisition system, simultaneous observation of four frequencies with full polarization is possible. On the other hand, upgrade work is in progress to expand frequency range of current KVN receiver. As a first step, K-band receivers are upgraded to have 18-26 GHz input range in 2018 and upgrade of 86GHz receiver for 85-116 GHz will be followed by next year. The recent status and wide band upgrade plan of the KVN system are introduced.